

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("20070138138").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/13 10:05
S2	535	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and (oxide (silicon or Si) (manganese or Mn))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/13 14:51
S3	38	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and (oxide (silicon or Si) (manganese or Mn)) and hot rolling and rough\$5	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/13 14:53
S4	1250	216/83.ccls.	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/15 12:18
S5	216	216/96.ccls.	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/15 12:18
S6	944	148/320.ccls.	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/15 12:18
S7	1664	S4 or S5 or S6 and steel and oxide	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/15 12:19

S8	1439	S4 or S5 or S6 and steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and (oxide (silicon or Si) (manganese or Mn)))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/15 12:20
S9	17	(S4 or S5 or S6) and (steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and (oxide (silicon or Si) (manganese or Mn)))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/15 12:25
S10	1	("6962631").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/19 09:52
S11	43	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and (oxide (silicon or Si) (manganese or Mn)) and (oxide near8 concentration)	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/19 10:04

S12	181	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and (oxide (silicon or Si) (manganese or Mn)) and (oxide near5 (layer or film or surface))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/19 10:44
S13	106	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and ((oxide near5 (layer or film or surface)) (silicon or Si) (manganese or Mn))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/19 11:41
S14	1	("20030054195").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/19 13:47
S15	6	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and ((oxide near5 (layer or film or surface)) (silicon or Si) (manganese or Mn)) and conversion coating	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/19 13:58

S16	2	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and ((oxide near5 (layer or film or surface)) (silicon or Si) (manganese or Mn)) and conversion adj coating	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/02/19 14:07
S17	10	(US-20030084965-\$ or US-20030111144-\$ or US-20030196735-\$ or US-20030201038-\$ or US-20030213535-\$ or US-20040007297-\$ or US-20040108024-\$ or US-20060275623-\$).did. or (US-5882803-\$ or US-6676774-\$).did.	US-PGPUB; USPAT	ADJ	ON	2008/02/19 15:51
S18	1	("6632295").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/20 11:14
S19	544	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and (oxide (silicon or Si) (manganese or Mn))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54

S20	39	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca) and (oxide (silicon or Si) (manganese or Mn)) and hot rolling and rough\$5	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54
S21	231	216/96.ccls.	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54
S22	1306	216/83.ccls.	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54
S23	976	148/320.ccls.	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54
S24	1744	S22 or S21 or S23 and steel and oxide	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54
S25	1506	S22 or S21 or S23 and steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca) and (oxide (silicon or Si) (manganese or Mn))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54

S26	18	(S22 or S21 or S23) and (steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and (oxide (silicon or Si) (manganese or Mn)))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54
S27	45	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and (oxide (silicon or Si) (manganese or Mn)) and (oxide near8 concentration)	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54
S28	186	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and (oxide (silicon or Si) (manganese or Mn)) and (oxide near5 (layer or film or surface))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54

S29	109	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and ((oxide near5 (layer or film or surface)) (silicon or Si) (manganese or Mn))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:54
S30	2	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and bald	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:55
S31	2086	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:55
S32	283	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and conversion	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:55

S33	34	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca)) and chemical near3 conversion	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:55
S34	68	S25 and conversion	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 11:56
S35	588	420/8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/10/16 12:06
S36	365	420/120.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/10/16 12:09
S37	336	420/126.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/10/16 12:09
S38	355	420/127.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/10/16 12:09
S39	137	420/128.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/10/16 12:09
S40	2086	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 12:10
S41	2086	S40	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 12:10



S42	1237	S35 or S36 or S37 or S38 or S39	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 12:10
S43	67	S40 and S42	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2008/10/16 12:10
S44	10	(US-20030084965-\$ or US-20030111144-\$ or US-20030196735-\$ or US-20030201038-\$ or US-20030213535-\$ or US-20040007297-\$ or US-20040108024-\$ or US-20060275623-\$).did. or (US-5882803-\$ or US-6676774-\$).did.	US-PGPUB; USPAT	ADJ	ON	2009/09/24 14:26
S45	9	S44 and (copper or Cu)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/09/24 14:27
S46	1	S44 not (copper or Cu)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/09/24 14:27
S47	2	"20030201039"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/09/24 14:46
S48	236	(carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorous or P) same (sulfur or S) same (aluminum or Al) same (nitrogen or N) and hot and roughness and oxide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/09/24 14:49
S49	0	S48 and convertability	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/09/24 14:49
S50	107	S48 and pickling	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/09/24 14:50
S51	2	"2003155541"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/09/24 14:58

S52	61	S48 and conversion	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/09/24 15:23
S53	35	S52 and pickling	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/09/24 15:23
S54	1	S50 and bald	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/09/24 16:04
S55	610	420/8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/09/25 12:02
S56	378	420/120.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/09/25 12:02
S57	338	420/126.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/09/25 12:02
S58	360	420/127.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/09/25 12:02
S59	143	420/128.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/09/25 12:02
S60	2207	steel and ((carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe) (titanium or Ti or niobium or Nb) (copper or Cu or nickel or Ni or molybdenum or Mo or boron or B or calcium or Ca))	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2009/09/25 12:02
S61	1273	S55 or S56 or S57 or S58 or S59	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2009/09/25 12:02
S62	73	S60 and S61	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2009/09/25 12:02

S63	3639	steel and (carbon or C) (silicon or Si) (manganese or Mn) (phosphorus or P) (sulfur or S) (aluminum or Al) (nitrogen or N) (iron or Fe)	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2009/09/25 12:03
S64	131	S63 and S61	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2009/09/25 12:04
S65	28	S64 and pickling	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2009/09/25 12:05
S66	463	S63 and pickling	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2009/09/25 12:05
S67	122	S66 and "420".clas.	US-PGPUB; USPAT; USOCR; EPO	SAME	ON	2009/09/25 12:05

**EAST Search History (Interference)**

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